

M 7.0, 114 km NNW of Popondetta, Papua New Guinea

Origin Time: 2020-07-17 02:50:22 UTC (Fri 12:50:22 local)

Location: 7.8386° S 147.7754° E Depth: 73.0 km

FOR TSUNAMI INFORMATION, SEE: tsunami.gov

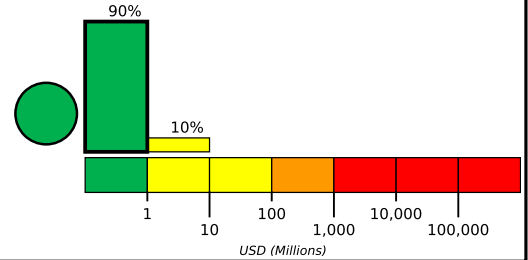
Created: 3 weeks, 6 days after earthquake

Estimated Fatalities



Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

Estimated Economic Losses

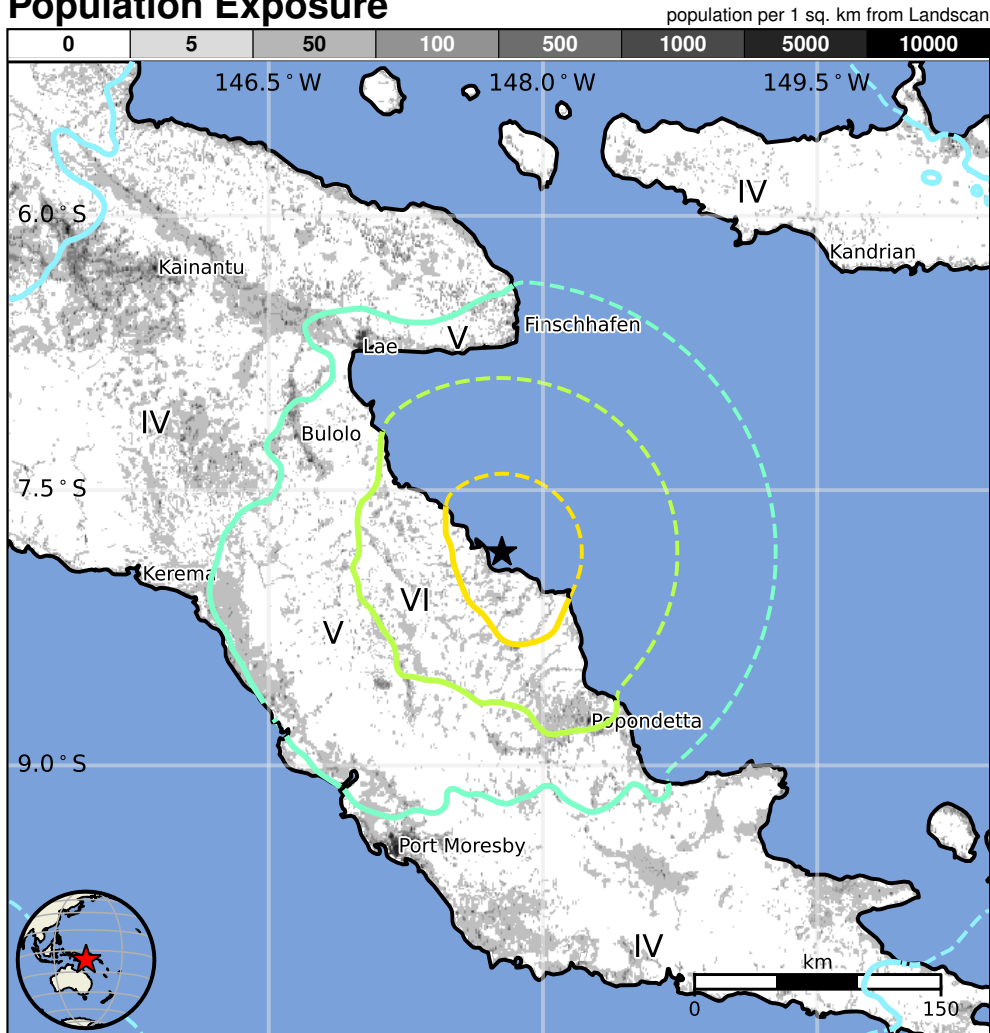


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)	—*	231k*	1,953k	447k	122k	26k	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY	I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are informal (metal, timber, GI etc.) and unreinforced brick masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
2005-06-04	196	6.1	VII(27k)	1
2001-06-05	183	6.4	VIII(4k)	0
1993-10-16	273	6.3	VII(75k)	3

Recent earthquakes in this area have caused secondary hazards such as tsunamis, landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
VI	Popondetta	28k
V	Kokoda	6k
V	Lae	76k
V	Bulolo	16k
V	Finschhafen	1k
V	Wau	15k
IV	Port Moresby	284k
IV	Kerema	6k
IV	Madang	27k
III	Goroka	19k
III	Kimbe	19k

PAGER content is automatically generated, and only considers losses due to structural damage.

Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/us7000aq3e#pager>

bold cities appear on map.

(k = x1000)

Event ID: us7000aq3e